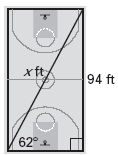
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

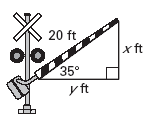
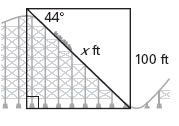
CW 66: Right Triangle Trig

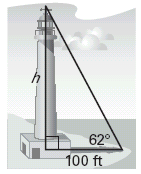
**Honors Geometry**

|  |  |  |
| --- | --- | --- |
| Label the opposite, adjacent, and hypotenuse of each triangle. Determine which trig ratio to use. Solve for x. | | |
| 1) | 2) | 3) |
| 4) | 5) | 6) |



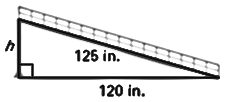
7) You walk from one corner of a basketball court to the opposite corner. Write and solve a proportion using a trigonometric ratio to approximate the distance of the walk.

8) You are at the top of a roller coaster 100 feet above the ground. The angle of depression is 44°. About how far do you ride down the hill? 

9) A railroad crossing arm that is 20 feet long is stuck with an angle of elevation of 35° Find the lengths *x* and *y.*

10) Find the height *h* of the lighthouse to the nearest foot.

11) An angle in a right triangle has a measure. If **tan =**, then sin= ?

12) A shipping dock has a mobile ramp that is used to help load and unload cargo from trucks. The ramp is 125 inches long and has a base that is 120 inches long. What is the sine, cosine, and tangent of the angle made with the ramp and the ground?

13) In the figure below, ABC is a right triangle with a right angle at C. Which of the statements about this figure is NOT correct?

A

**sin A =**

1. cos A =
2. tan A =

B

C

1. cos B =
2. tan B =